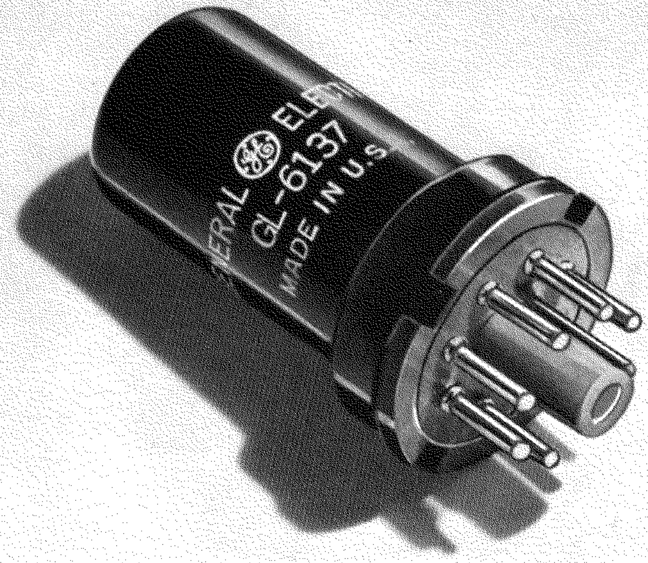


PENTODE

DESCRIPTION

The GL-6137 is a remote-cutoff pentode designed for use as a high-gain radio-frequency or intermediate-frequency amplifier. The tube is specially designed to assure dependable life and reliable service under the exacting conditions encountered in mobile and aircraft applications. Features include a high degree of mechanical strength and a heater-cathode construction designed to withstand many thousand cycles of intermittent operation.

TECHNICAL INFORMATION

GENERAL

Electrical Data

Cathode—Coated Unipotential

Heater Voltage (A-c or D-c)	6.3	Volts
Heater Current	0.3	Ampere
Direct Interelectrode Capacitance*		
Grid No. 1 to Plate, maximum	0.003	uuf
Input	5.0	uuf
Output	6.5	uuf

Mechanical Data

Mounting Position—Any
Envelope—MT-8, Metal Shell
Base—Small Wafer Octal 8-pin, B8-21

Electronic TUBE

TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS

Electrical—Design Center Values

Plate Voltage	300	Volts
Screen Supply Voltage	300	Volts
Screen Voltage	125	Volts
Positive D-c Grid—No. 1 Voltage	0	Volt
Plate Dissipation	3.0	Watts
Screen Dissipation	0.4	Watt
Heater-cathode Voltage	90	Volts

Mechanical

Peak Impact Acceleration in Any Direction	600	G

CHARACTERISTICS AND TYPICAL OPERATION

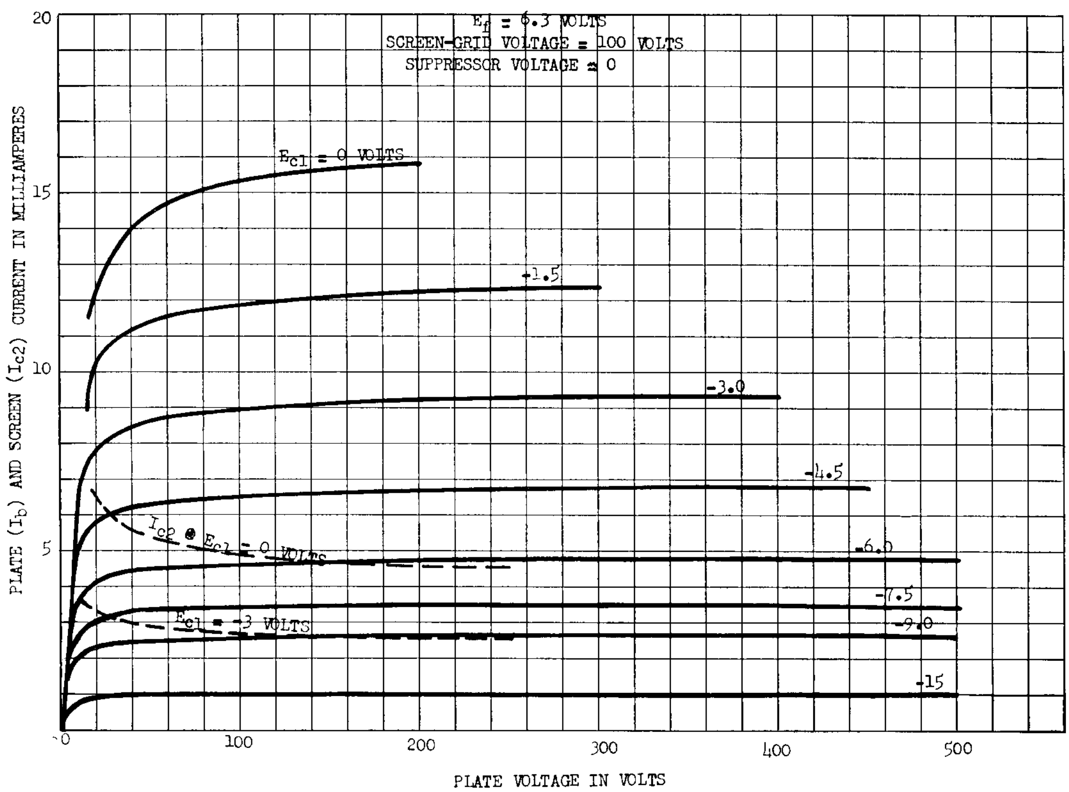
Class A_1 Amplifier

Plate Voltage	100	250	Volts
Suppressor Voltage△	0	0	Volt
Screen Voltage	100	100	Volts
Grid—No. 1 Voltage	−1	−3	Volts
Plate Resistance, approximate	0.12	0.8	Megohm
Transconductance	2350	2000	Micromhos
Plate Current	13	9.2	Milliamperes
Screen Current	4.0	2.6	Milliamperes
Grid—No. 1 Voltage, approximate for Gm = 10 Micromhos	−35	−35	Volts

* Measured with Pin 1 connected to Pin 5.

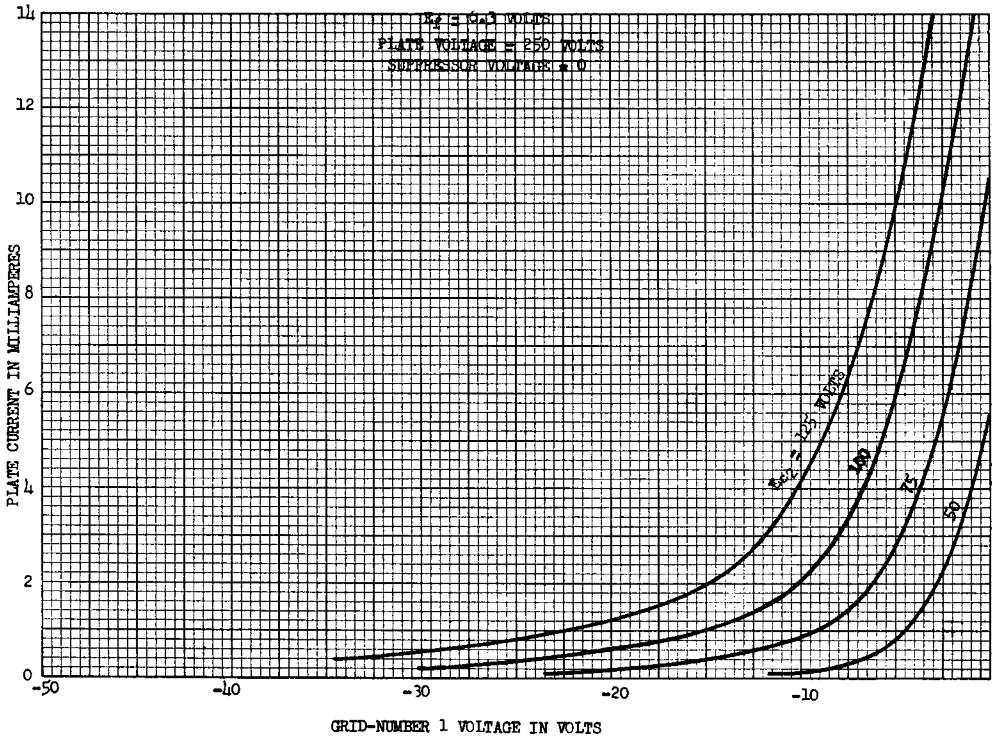
△Pin 3 connected to Pin 5 at socket.

AVERAGE PLATE CHARACTERISTICS



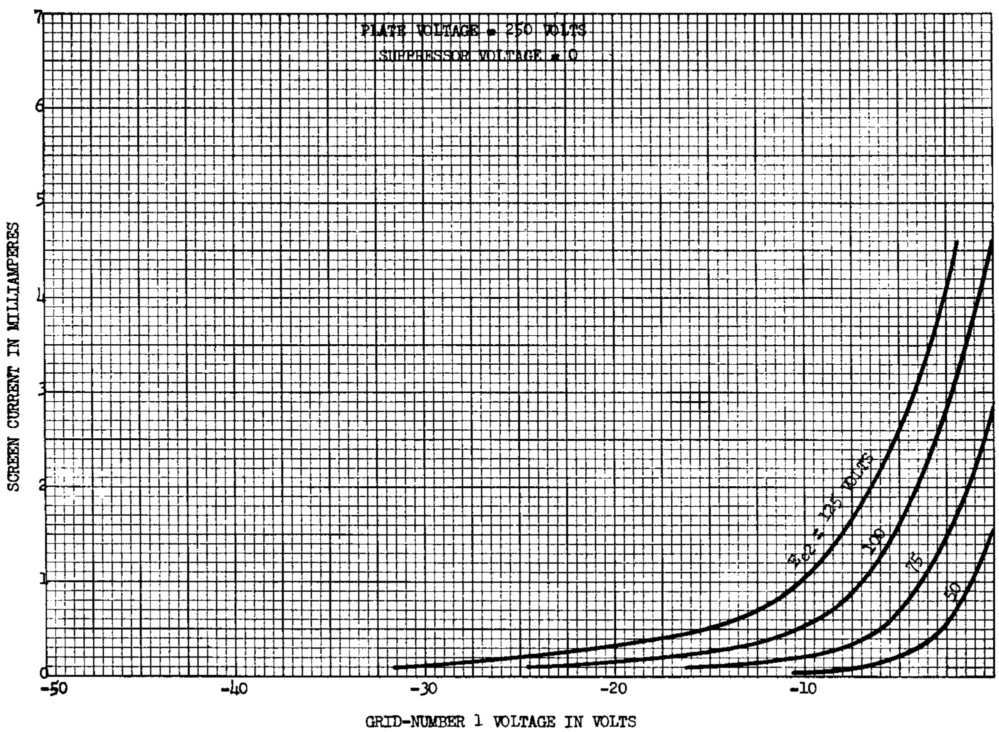
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AVERAGE CHARACTERISTICS



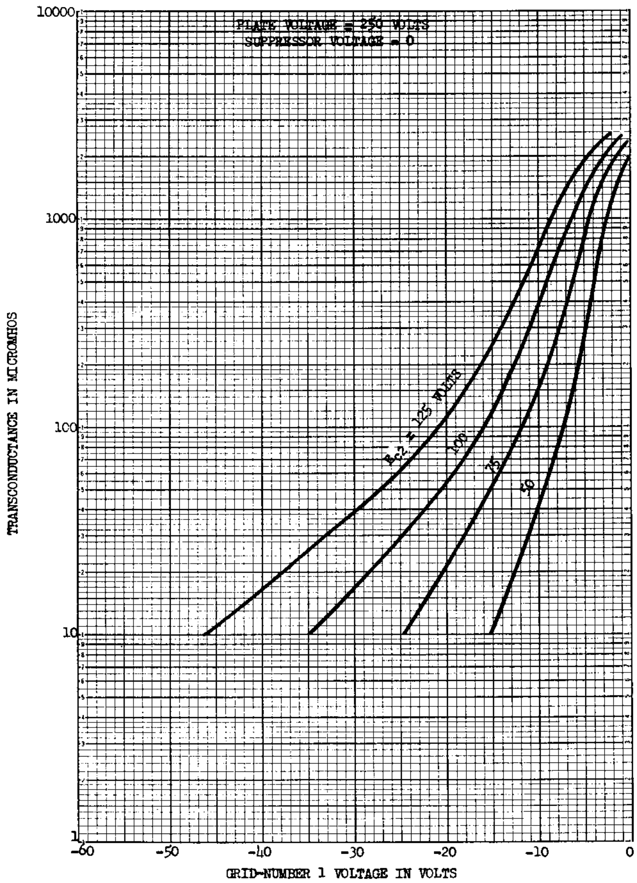
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AVERAGE CHARACTERISTICS



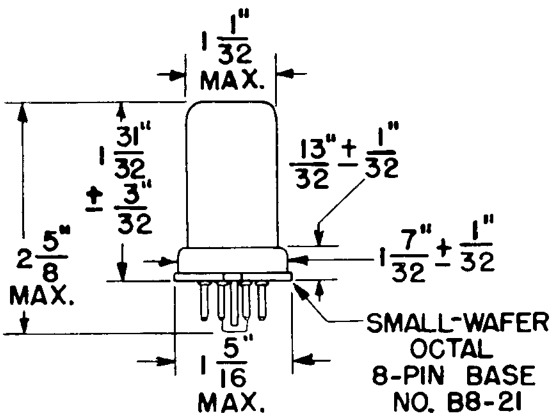
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AVERAGE CHARACTERISTICS

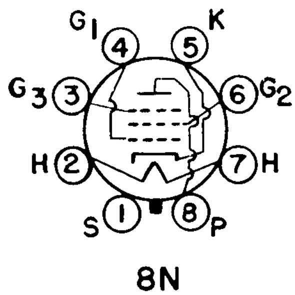


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OUTLINE



BASING DIAGRAM



8N

PIN 1:	SHELL	PIN 5:	CATHODE
PIN 2:	HEATER	PIN 6:	GRID NO. 2
PIN 3:	GRID NO. 3	PIN 7:	HEATER
PIN 4:	GRID NO. 1	PIN 8:	PLATE

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